PATENT COOPERATION TREAT

From the INTERNATIONAL BUREAU

PCT

NOTIFICATION OF ELECTION

(PCT Rule 61.2)

To:

Commissioner
US Department of Commerce
United States Patent and Trademark
Office, PCT
2011 South Clark Place Room
CP2/5C24
Arlington, VA 22202

Date of mailing (day/month/year) 25 June 2001 (25.06.01) ETATS-UNIS D'AMERIQUE in its capacity as elected Office

International application No.	
PCT/EP00/09256	
International filing date (day/month/year)	

PF990063

Priority date (day/month/year)
20 September 1999 (20.09.99)

Applicant's or agent's file reference

Applicant

STRAUB, Gilles et al

20 September 2000 (20.09.00)

1.	The designated Office is hereby notified of its election made:
	X in the demand filed with the International Preliminary Examining Authority on:
	19 April 2001 (19.04.01)
	in a notice effecting later election filed with the International Bureau on:
2.	The election X was
	was not
	made before the expiration of 19 months from the priority date or, where Rule 32 applies, within the time limit under Rule 32.2(b).

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland Authorized officer

Zakaria EL KHODARY

Telephone No.: (41-22) 338.83.38

Facsimile No.: (41-22) 740.14.35

Copy for the Elected Office (EO/US)

PATENT COOPERATION TREATY

	From the INTERNATIONAL BUREAU		
PCT	То:		
NOTIFICATION OF THE RECORDING OF A CHANGE (PCT Rule 92bis.1 and Administrative Instructions, Section 422) Date of mailing (day/month/year) 19 November 2001 (19.11.01)	KOHRS, Martin Thomson Multimedia 46, quai Alphonse Le Gallo F-92648 Boulogne Cedex FRANCE		
Applicant's or agent's file reference			
PF990063	IMPORTANT NOTIFICATION		
International application No. PCT/EP00/09256	International filing date (day/month/year) 20 September 2000 (20.09.00)		
The following indications appeared on record concerning: The applicant the inventor	the agent the common representative		
Name and Address THOMSON MULTIMEDIA 46, quai Alphonse Le Gallo F-92100 Boulogne-Billancourt	State of Nationality State of Residence FR FR Telephone No.		
France	33 1 41 86 52 73 Facsimile No.		
	33 1 41 86 56 34		
	Teleprinter No.		
2. The International Bureau hereby notifies the applicant that the			
X the person the name the add	State of Nationality State of Residence		
Name and Address THOMSON LICENSING S.A.	FR FR		
46, quai Alphonse Le Gallo F-92100 Boulogne-Billancourt	Telephone No.		
France	33 1 41 86 52 73 Facsimile No.		
	33 1 41 86 56 34		
	Teleprinter No.		
3. Further observations, if necessary:			
4. A copy of this notification has been sent to:			
X the receiving Office	the designated Offices concerned		
the International Searching Authority	the elected Offices concerned		
X the International Preliminary Examining Authority	other:		
The International Purceur of WIPO	Authorized officer		
The International Bureau of WIPO 34, chemin des Colombettes	R. Raissi		
1211 Geneva 20, Switzerland Facsimile No.: (41.22) 740 14 35	Telephone No.: (41-22) 338.83.38		

(19) World Intellectual Property Organization International Bureau





(43) International Publication Date 29 March 2001 (29.03.2001)

(10) International Publication Number WO 01/22661 A2

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20 September 2000 (20.09.2000)

(25) Filing Language:

English

H04L 12/28

(26) Publication Language:

English

(30) Priority Data:

99402299.4 99119430.9 20 September 1999 (20.09.1999) EP

30 September 1999 (30.09.1999) EP

(71) Applicant (for all designated States except US): THOM-SON MULTIMEDIA [FR/FR]; 46, quai Alphonse Le Gallo, F-92100 Boulogne-Billancourt (FR).

(72) Inventors; and

(75) Inventors/Applicants (for US only): STRAUB, Gilles [FR/FR]; Thomson Multimedia, 46, quai Alphonse Le Gallo, F-92648 Boulogne Cedex (FR). LAURENT, Christophe [FR/FR]; Thomson Multimedia, 46, quai Alphonse Le Gallo, F-92648 Boulogne Cedex (FR). VIN-CENT, Christophe [FR/FR]; Thomson Multimedia, 46, quai Alphonse Le Gallo, F-92648 Boulogne Cedex (FR). DURAND, Alain [FR/FR]; Thomson Multimedia, 46, quai Alphonse Le Gallo, F-92648 Boulogne Cedex (FR).

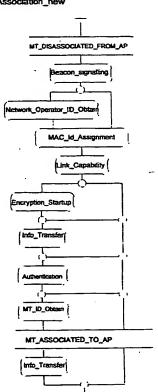
(74) Agent: KOHRS, Martin; Thomson Multimedia, 46, quai Alphonse Le Gallo, F-92648 Boulogne Cedex (FR).

(81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ,

[Continued on next page]

(54) Title: METHOD FOR DEVICE REGISTRATION IN A WIRELESS HOME NETWORK

MSC Association new



(57) Abstract: The invention concerns a method for registering a device in a wireless network comprising a central access point. The method comprises the steps of: sending an identification code from the device to the access point; checking by said access point whether the received identification code corresponds to the identification code sent by said device and if such checking is positive, sending an authentication key from said access point to said device; storage of said authentication key by said device for use in authentication procedures between said device and said access point. The invention is applicable among others in digital home networks.





NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW.

(84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).

Published:

 Without international search report and to be republished upon receipt of that report.

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.



NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW.

(84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).

Published:

- with international search report
- (88) Date of publication of the international search report: 11 October 2001

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

PATENT COOPERATION TREATY PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference PF990063		of Transmittal of International Search Report 20) as well as, where applicable, item 5 below.
International application No.	International filing date (day/month/year)	(Earliest) Priority Date (day/month/year)
PCT/EP 00/09256	20/09/2000	20/09/1999
Applicant		
THOMSON MULTIMEDIA et al.		
This International Search Report has been according to Article 18. A copy is being tra	n prepared by this International Searching Aut ansmitted to the International Bureau.	nority and is transmitted to the applicant
This International Search Report consists It is also accompanied by	of a total of3 sheets. a copy of each prior art document cited in this	report.
Basis of the report		
	international search was carried out on the bases otherwise indicated under this item.	sis of the international application in the
the international search w Authority (Rule 23.1(b)).	ras carried out on the basis of a translation of t	he international application furnished to this
b. With regard to any nucleotide an was carried out on the basis of the		ternational application, the international search
	ernational application in computer readable form	n.
furnished subsequently to	this Authority in written form.	
	this Authority in computer readble form.	
	osequently furnished written sequence listing d is filed has been furnished.	oes not go beyond the disclosure in the
the statement that the info furnished	ormation recorded in computer readable form is	s identical to the written sequence listing has been
2. Certain claims were fou	nd unsearchable (See Box I).	
3. Unity of invention is lac	king (see Box II).	
4. With regard to the title ,		
X the text is approved as su	bmitted by the applicant.	
the text has been establis	hed by this Authority to read as follows:	
E Men accord to the above		·
5. With regard to the abstract, The text is approved as su	bmitted by the applicant.	
the text has been establis	shed, according to Rule 38.2(b), by this Authorication of mailing of this international search rep	ty as it appears in Box III. The applicant may, port, submit comments to this Authority.
6. The figure of the drawings to be publ		2
X as suggested by the appli	cant.	None of the figures.
because the applicant fail		
because this figure better	characterizes the invention.	

INTERNATIONAL SEARCH REPORT

International Application No POTEP 00/09256

A. CLASSIFICATION OF SUBJECT MATT IPC 7 H04L29/06 H04L12/28

H04L9/08

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, PAJ, WPI Data

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to daim No.
P,X	EP 0 944 203 A (NOKIA MOBILE PHONES LTD) 22 September 1999 (1999-09-22) page 3, column 4, line 22 -page 5, column 7, line 49; claim 1	1-5
X	& FI 980 291 A (NOKIA MOBILE PHONES LTD) 10 August 1999 (1999-08-10) the whole document	1-5
Α	EP 0 658 021 A (IBM) 14 June 1995 (1995-06-14) abstract page 2, column 1, line 10 - line 50 page 3, column 4, line 24 -page 4, column 5, line 56 claims 1-6	1-5

X Further documents are listed in the continuation of box C.	Patent family members are listed in annex.
Special categories of cited documents: 'A' document defining the general state of the art which is not considered to be of particular relevance 'E' earlier document but published on or after the international filing date 'L' document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) 'O' document referring to an oral disclosure, use, exhibition or other means 'P' document published prior to the international filing date but later than the priority date claimed	 "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art. "&" document member of the same patent family
Date of the actual completion of the international search	Date of mailing of the international search report
27 March 2001	02/04/2001
Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Authorized officer Karavassilis, N

INTERNATIONAL SEARCH REPORT

International Application No

	ion) DOCUMENTS CONSIDE TO BE RELEVANT	
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 5 077 790 A (SHARP RONALD E ET AL) 31 December 1991 (1991-12-31) abstract column 3, line 4 -column 4, line 3 claims 1-4	1-5

2

INTERNATIONAL SEARCH REPORT

Information on patent family members

[Internation	al Application No
	EF	00/09256
nily (s)		Publication date

	atent document d in search report		Publication date		Patent family member(s)	Publication date
EP	0944203	Α	22-09-1999	FI	980291 A	10-08-1999
EP	0658021	A	14-06-1995	CA JP JP US	2130396 A,C 2568054 B 7202883 A 5539824 A	09-06-1995 25-12-1996 04-08-1995 23-07-1996
US	5077790	A	31-12-1991	AT AU BR CA DE EP FI JP JP KR WO AU NO	173119 T 8769091 A 9106726 A 2087841 A,C 69130458 D 0565528 A 930307 A 2546756 B 6505837 T 9600935 B 9212584 A 649742 B 930352 A	15-11-1998 17-08-1992 29-06-1993 01-07-1992 10-12-1998 20-10-1993 26-01-1993 23-10-1996 30-06-1994 15-01-1996 23-07-1992 02-06-1994 02-02-1993

PATENT COOPERATION TREATY

EXPRESS MAIL EV025962804US

From the INTERNATIONAL PRELIMINARY EXAMINING AUTHORITY
To:

PCT

KOHRS, Martin THOMSON MULTIMEDIA 46 Quai Alphonse Le Gallo 92648 BOULOGNE Cedex FRANCE

THOMSON Taltimedia
RECE ED

NOTIFICATION OF TRANSMITTAL OF THE INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Rule 71.1)

Administration | Date of mailing (day/month/year)

13.12.2001

Applicant's or agent's file reference PF990063

International application No. PCT/EP00/09256

Applicant

International filing date (day/month/year)

Priority date (day/month/year) 20/09/1999

IMPORTANT NOTIFICATION

20/09/2000

THOMSON MULTIMEDIA et al.

- 1. The applicant is hereby notified that this International Preliminary Examining Authority transmits herewith the international preliminary examination report and its annexes, if any, established on the international application.
- 2. A copy of the report and its annexes, if any, is being transmitted to the International Bureau for communication to all the elected Offices.
- 3. Where required by any of the elected Offices, the International Bureau will prepare an English translation of the report (but not of any annexes) and will transmit such translation to those Offices.

4. REMINDER

The applicant must enter the national phase before each elected Office by performing certain acts (filing translations and paying national fees) within 30 months from the priority date (or later in some Offices) (Article 39(1)) (see also the reminder sent by the International Bureau with Form PCT/IB/301).

Where a translation of the international application must be furnished to an elected Office, that translation must contain a translation of any annexes to the international preliminary examination report. It is the applicant's responsibility to prepare and furnish such translation directly to each elected Office concerned.

For further details on the applicable time limits and requirements of the elected Offices, see Volume II of the PCT Applicant's Guide.

Name and mailing address of the IPEA/

European Patent Office D-80298 Munich

Tel. +49 89 2399 - 0 Tx: 523656 epmu d

Fax: +49 89 2399 - 4465

Authorized officer

Barrio Baranano, A

Tel.+49 89 2399-8621





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INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

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Applicant's	or ag	ent's file reference		Con Notification of Transmitted of	lata and and
PF99006	_		FOR FURTHER ACTION	See Notification of Transmittal of Preliminary Examination Report (
Internation	al app	lication No.	International filing date (day/mont	/year) Priority date (day/mo	onth/year)
PCT/EP	00/09	9256	20/09/2000	20/09/1999	
H04L29/	06	ent Classification (IPC) or na	tional classification and IPC		
and is	s tran	smitted to the applicant a		*	y Examining Authority
ד 🗆 נ d (2)	his reen a see R	eport is also accompanied	5 sheets, including this cover s d by ANNEXES, i.e. sheets of the sis for this report and/or sheets of or of the Administrative Instruction sheets.	e description, claims and/or dra ontaining rectifications made be	•
3. This r	eport ⊠	contains indications rela	ting to the following items:		
II		Priority			
Ш		Non-establishment of o	pinion with regard to novelty, in	entive step and industrial applic	ability
IV		Lack of unity of invention	on		•
V	⊠	Reasoned statement ur citations and explanation	nder Article 35(2) with regard to ons suporting such statement	ovelty, inventive step or industr	rial applicability;
VI		Certain documents cite	ed		
VII	\boxtimes	Certain defects in the in	nternational application		
VIII		Certain observations or	n the international application		
Date of sub	missio	on of the demand	Date of	ompletion of this report	
19/04/20	01		13.12.2	01	
	exami Euro D-80 Tel.	g address of the internationa ining authority: opean Patent Office 0298 Munich +49 89 2399 - 0 Tx: 523656 +49 89 2399 - 4465	epmu d Hame	J	Same of the same o



International application No. PCT/EP00/09256

	I. E	3asi	s of	f the	rep	or
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1.	With regard to the elements of the international application (Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17)): Description, pages:								
	1-14	1	as originally filed						
	Claims, No.:								
	1-5		as originally filed						
	Drawings, sheets:								
	1/6-	6/6	as originally filed						
2.	With regard to the language , all the elements marked above were available or furnished to this Authority in the language in which the international application was filed, unless otherwise indicated under this item.								
	The	se elements were a	available or furnished to this Authority in the following language: , which is:						
		the language of a	translation furnished for the purposes of the international search (under Rule 23.1(b)).						
		the language of pu	blication of the international application (under Rule 48.3(b)).						
		the language of a 1 55.2 and/or 55.3).	translation furnished for the purposes of international preliminary examination (under Rule						
3.	. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international preliminary examination was carried out on the basis of the sequence listing:								
	☐ contained in the international application in written form.								
		filed together with the international application in computer readable form.							
		furnished subsequently to this Authority in written form.							
		furnished subsequently to this Authority in computer readable form.							
		□ The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.							
	☐ The statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished.								
4.	The	amendments have	resulted in the cancellation of:						
		the description,	pages:						
		the claims,	Nos.:						



International application No. PCT/EP00/09256

		the drawings,	sheets:						
5.		This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed (Rule 70.2(c)):							
		(Any replacement sh report.)	eet contai	ning such	h amendments must be referred to under item 1 and annexed to thi				
6.	Add	litional observations, if	necessar	y:					
V.	Rea	asoned statement un	der Articl	e 35(2) w	with regard to novelty, inventive step or industrial applicability;				
	cita	tions and explanatio			- · · · · · · · · · · · · · · · · · · ·				
		itions and explanation tement			- · · · · · · · · · · · · · · · · · · ·				
	Stat	•		rting suc	ch statement				
	Stat	tement	ns suppo Yes:	Claims Claims Claims	ch statement				

2. Citations and explanations see separate sheet

VII. Certain defects in the international application

The following defects in the form or contents of the international application have been noted: see separate sheet

V- Reasoned Statement

1. The following documents are cited:

D1: EP-A-0 944 203 (NOKIA MOBILE PHONES LTD) 22 September 1999 (1999-09-22) & FI 980 291 A (NOKIA MOBILE PHONES LTD) 10 August 1999 (1999-08-10). The EP version is used here as a translation of the FI document.

D2: EP-A-0 658 021 (IBM) 14 June 1995 (1995-06-14)

D3: US-A-5 077 790 (SHARP RONALD E ET AL) 31 December 1991 (1991-12-31)

2. Claim 1

The subject-matter of claim 1 of the present invention is concerned with a method for registering a device in a wireless network comprising a central access point. In claim 1, the registration begins by the device sending an identification code to the access point. If this code is recognised by the access point, an authentification key is sent from the access point to the device.

In wireless systems, it is well known in the art that a new device in the network must go through a registration process. An example of this can be found in D3 (see claim 1, col 5, lines 23 to 27 of D3) where the new device sends a link identification number to the base station for over the air registration. This is checked in a data base (col 5, lines 33 to 38). Once registration has taken place, the access point sends to the device an authentification key (encrypted subscriber identification number) (see col. 5, lines 46 to 47). This key is stored and used for further authentification procedures (see claim 2 of D3).

The transmission of an authentification key is also known from D1 (see claim 1 of the EP version of D1, column 8, lines 42 to 45). A key is sent from the access point (remote station) to the device (mobile host) where it is stored and used in authentification procedures.

As both registration and the transmission of an authentification key are known from the prior art to be necessary steps in operating a wireless network, and as

both of these features are already known in the prior art, a skilled person would need no inventive skill to place them together and to arrive at the subject-matter of claim 1. Thus, claim 1 does not involve an inventive step and does not meet the requirements of Article 33(3) PCT.

3. Dependent claims 2 to 5 are not appended to an independent claim which meets the requirements of Article 33(3) PCT. Furthermore, their subject-matter does not appear to contain anything of inventive significance which added to that of claim 1 would provide an inventive step No features are disclosed which are not either already known from the prior art or which are not obvious to a person skilled in the art of wireless networks.

VII- Certain Defects

The following deficiencies are found in the application:

- a) The claims do not meet the requirements of Rule 6.2(b) PCT in that they do not contain reference signs.
- b) The documents cited in the International Search Report listed above should have been referenced and briefly discussed in the description, Rule 5.1(a)(ii), PCT.